

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-304481

(43)Date of publication of application : 22.11.1996

(51)Int.Cl. G01R 21/08
G01R 15/20
// G01R 33/04

(21)Application number : 07-108910

(71)Applicant : SHIMADZU CORP

(22)Date of filing : 08.05.1995

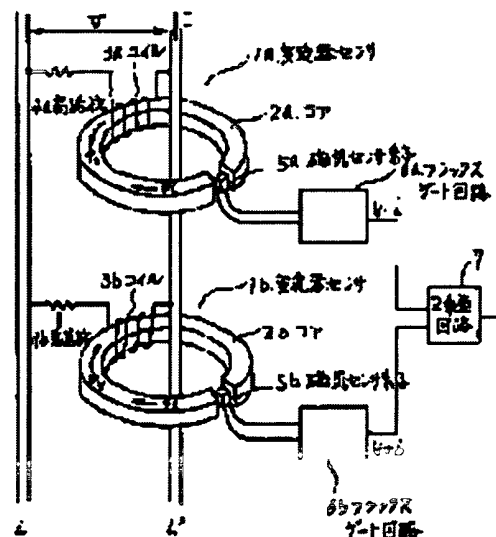
(72)Inventor : YAMADA YASU HARU

(54) WATTMETER

(57)Abstract:

PURPOSE: To highly accurately detect a power in a simple constitution even under bad environmental circumstances and measure even a D.C. power.

CONSTITUTION: Ends of series connections of a high resistor 4a and a coil 3a, and a high resistor 4b and a coil 3b are connected between power source lines L and L' of general household or the like, and moreover, cores 2a, 2b are arranged so that the line L' penetrates therethrough. Accordingly, a magnetic flux Φ_i proportional to a load current I and a magnetic flux Φ_v proportional to a source voltage V are induced to the cores 2a, 2b. At this time, since the coils 3a and 3b are wound in opposite directions, a magnetic flux $\Phi_v - \Phi_i$ are induced to the core 2a, while a magnetic flux $\Phi_v + \Phi_i$ are induced to the core 2b. These magnetic fluxes are detected by magnetic sensor elements 5a, 5b. Signals proportional to a sum of a current and a voltage and a difference between the current and the voltage from flux gate circuits 6a, 6b are input to a square difference circuit 7 which in turn outputs a signal proportional to a power.



LEGAL STATUS

[Date of request for examination]

09.04.2001

[Date of sending the examiner's decision of rejection]

., [Kind of final disposal of application other than the
., examiner's decision of rejection or application
converted registration]

[Date of final disposal for application]

[Patent number] 3460375

[Date of registration] 15.08.2003

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]